

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Christopher B. Rider

A PHOTOVOLTAIC DEVICE
AND A MANUFACTURING
METHOD THEREOF

Serial No. To be assigned

Filed Herewith

Commissioner for Patents
P.O. Box 1450
Alexandria, VA. 22313-1450

Group Art Unit: To be assigned

Examiner: Unknown

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November 5, 2003
Date

Sir:

INFORMATION DISCLOSURE STATEMENT FOR CONSIDERATION
BY THE OFFICE UNDER 37 C.F.R. 1.97-1.99

Enclosed herewith are patents and/or publications for consideration by the Patent and Trademark Office in regard to the invention claimed in the above-described application. In compliance with §1.56, such documents are listed in the enclosed Form PTO-1449.

Applicants request that the Patent and Trademark Office make of record the above-identified documents. A full text copy of each document is attached, except for copies of U.S. Patents and U.S. Patent application publications. For documents not in English, an English translation or an equivalent English language patent or publication may be attached. Where a translation is not available, a concise explanation of the relevance of each document not in English is included either here or in the specification.

This Information Disclosure Statement (hereinafter "Statement") is submitted according to the following selected paragraph:

- I. ☒ This Statement is being filed under §1.97(b) within three months of the filing date of the application (other than a CPA), or before the mailing of a first Office action on the merits or before the mailing of a first Office action after the filing of a request for continued examination.
- II. ☐ This Statement is being filed under §1.97(c), with fee, **prior** to the mailing date of any of a final action, a notice of allowance or an action that otherwise closes prosecution in the application. Please charge the fee required by to §1.17(p) Eastman Kodak Company Deposit Order Account Number 05-0225. A duplicate copy of this Certification is enclosed.

III. ☐ This Statement is being filed under §1.97(c), with a certification under, §1.97(e) **prior** to the mailing date of any of a final action, a notice of allowance or an action that otherwise closes prosecution in the application. The undersigned hereby states that (check one):

☐ each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.


☐ no item of information in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification under §1.97(e) after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this Statement.

IV. ☐ This Statement is being filed under §1.97(d), with fee and certification under §1.97(e), on or after the mailing date of either a final action, a notice of allowance (but prior to payment of the issue fee) or an action that otherwise closes prosecution in the application. Please charge the fee required by §1.17(p) to Eastman Kodak Company Deposit Order Account No. 05-0225. A duplicate copy of this Certification is enclosed. The undersigned hereby states that (check one):

☐ each item of information in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.

☐ no item of information in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification under §1.97(e) after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this Statement.

Respectfully submitted,



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Enclosures

FORM PTO-1449 US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Docket No. 85055MSS Customer No. 01333	Serial No. To be assigned
If AFTER the later date of the first Office Action or 3 months from filing, use only with Rule 97(E) Certificate or Fee		
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)		
Applicant: Christopher B. Rider		Filing Date Herewith

U.S. PATENT DOCUMENTS						
Examiner Initial*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,127,738	11-28-1978	Ghosh et al			
	4,362,806	12-07-1982	Whitmore			
	4,694,185	09-15-1987	Weiss			
	4,966,831	10-30-1990	Mehra et al			
	5,670,791	09-23-1997	Halls et al			
	5,926,319	07-20-1999	Phillips et al			
	6,440,769	08-27-2002	Peumans et al			

FOREIGN PATENT DOCUMENTS						
Examiner Initial*	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	WO 95/06887	03-09-1995	PCT			X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
	Peumans, Bulovic, and Forrest; "Efficient Photon Harvesting at High Optical Intensities ... Photovoltaic Diodes"; Applied Physics Letters; May 8, 2000; Vol. 76, No. 19; pp. 2650-2652.
	O'Regan & Grätzel; "A low-cost, high efficiency solar cell based on dye-sensitized colloidal TiO ₂ films"; Nature; October 24, 1991; Vol. 353; pp. 737-740.
	Grätzel; "Photoelectrochemical cells"; Nature; November 15, 2001; Vol. 414; pp.338-344.
	Tang; "Two-layer organic photovoltaic cell"; Applied Physics Letters; January 13, 1986; Vol. 48; pp.183-185.
	J.H. Burroughs, et al.; "Light-emitting diodes based on conjugated polymers"; Nature; October 11, 1990; Vol. 347; pp.539-541.
	G. Yu, et al.; "Polymer photovoltaic cells: enhanced efficiencies via a network of internal donor-acceptor heterojunctions"; Science; December 15, 1995; Vol. 270; pp. 1789-1791.
	W.T. Welford & R. Winston; "Applications to solar energy concentration"; The Optics of Nonimaging Concentrators; 1978; Chapter 8; pp. 119-141.
	W.T. Welford & R. Winston; "Applications to solar energy concentration"; High Collection Nonimaging Optics; 1989; Chapter 10; pp. 172-179.

EXAMINER	DATE CONSIDERED
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>	